



LEADER IN DEPENDABILITY SINCE 1910

SUPPLEMENTARY DATA-EUROPEAN TUBE TYPES
MODEL 800-800A
TUBE TESTERS

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MODEL 800-800A

TUBE TESTERS

NOTE 1: A Star ★ after P1, P2, P3, and P5 indicates that reading is made on English Scale only.

NOTE 2: A # in the Bias column indicates Bias should be set at 100 and proper button pressed while Bias dial is rotated until tube strikes.

PRINTED IN U. S. A.

TUBE TYPE	FIL.	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
1AJ4	1.5	HT-6210-0	22	10	P4	475	Adjust Bias to vary bar length. Do not adjust Bias below 30. Use Hickok Adapter #1050-99
1C1	1.5	DX-8106-2	60	32	P4	775	
1M3	1.5	EV-1800-0	---	---	P5	----	
1N3	1.5	EV-1800-0	---	----	P5	----	Adjust Bias to vary bar length. Do not adjust Bias below 30. Use Hickok Adapter #1050-99
2FY5	2.5	JR-2503-6	16	90	P4	6000	Heptode Sect. Triode Sect.
2HA5	2.0	JR-3507-6	19	90	P4	5200	
3AJ8	3.0	EV-2613-7	13	59	P4	1300	
3AJ8	3.0	EV-9803-2	21	79	P4	2750	Pent. Sect. Triode Sect.
3BX6	3.0	EV-2781-9	6	86	P4	3700	
3BY7	3.0	EV-2781-9	17	80	P4	2550	
3FY5	3.0	JR-2503-6	16	90	P4	6000	Pentode Section Triode Section
3HA5	2.5	JR-3507-6	19	90	P4	5200	
4BL8	4.3	EV-2637-1	7	83	P4	2950	
4BL8	4.3	EV-9108-6	26	83	P4	3100	Plate No. 1 Plate No. 2 Triode No. 1 Triode No. 2
4BN4	4.3	JR-2503-0	20	83	P4	3200	
4CM4	4.3	EV-2103-0	19	88	P4	4650	
4HA5	4.3	JR-3507-6	19	90	P4	5200	Diode No. 1 Diode No. 2 Diode No. 3
4HG8	4.3	EV-2893-0	11	73	P4	2000	
4HG8	4.3	EV-6703-0	29	84	P4	3200	
4MP12	5.0	JR-3562-0	11	88	P4	4150	Cap = P. Hold down P6 and press P3. Disregard shorts test.
5AR4	5.0	HR-0600-0	0	60	P3 ★	----	
5AR4	5.0	HR-0400-0	0	60	P3 ★	----	
5MHH3	5.0	JR-6307-0	18	91	P4	5200	Triode No. 1 Triode No. 2
5MHH3	5.0	JR-5207-0	18	91	P4	5200	
6AJ8	6.3	EV-2613-7	13	59	P4	1300	
6AJ8	6.3	EV-9803-2	21	79	P4	2750	Triode No. 1 Triode No. 2 Triode Sect.
6AK8	6.3	EV-8907-0	8	57	P4	1200	
6AK8	6.3	EV-0607-0	0	26	P1 ★	----	
6AK8	6.3	EV-0203-0	0	76	P1 ★	----	Triode No. 1 Triode No. 2 Triode Sect.
6AK8	6.3	EV-0107-0	0	76	P1 ★	----	
6AL3	6.3	EV-0009-0	0	68	---	----	
6AM5	6.3	JR-3572-0	23	80	P4	2600	Triode No. 1 Triode No. 2 Triode Sect.
6AM6	6.3	JR-3572-6	15	73	P4	2000	
6AQ4	6.3	JR-3702-0	11	86	P4	3700	
6AQ8	6.3	EV-7608-9	21	64	P4	1450	Diode No. 1 Diode No. 2
6AQ8	6.3	EV-2103-9	21	64	P4	1450	
6BD7A	6.3	EV-2103-0	15	48	P4	1000	
6BD7A	6.3	EV-0603-0	0	22	P1 ★	----	Pent. Sect. Triode Sect.
6BD7A	6.3	EV-0803-0	0	22	P1 ★	----	
6BJ5	6.3	JR-3572-0	8	90	P4	4850	
6BK8	6.3	EV-9613-8	11	65	P4	1500	Pent. Sect. Triode Sect.
6BL8	6.3	EV-2637-1	7	83	P4	2950	
6BL8	6.3	EV-9108-6	26	83	P4	3100	

TUBE TYPE	FIL.	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
6BN5	6.3	EV-2793-6	14	82	P4	3200	Connect a 1 megohm resistor from Plate Jack to octal test socket pin #8. Vary Bias to vary beam angle.
6BR5	6.3	EV-1902-0	Vary	100	P5	----	
6BR7	6.3	EV-2783-9	17	55	P4	1250	Cap = G Diode No. 1) Use Hickok Adapter Diode No. 2) Code No. 1050-129
6BS7	6.3	EV-0783-9	17	59	P4	1250	
6BT4	6.3	HS-0108-0	0	30	P3 ★	----	Connect a 1 megohm resistor from plate jack to pin 3 of large 7 pin socket. Connect another 1 megohm resistor from plate jack to pin 6 of large 7 pin socket. Eye one closes at Bias of about 30 - Eye two closes at Bias of about 55.
6BT4	6.3	HS-0608-0	0	30	P3 ★	----	
6BW6	6.3	EV-2783-9	17	87	P4	4100	Use Hickok Adapter No. 1050-129 Use Hickok Adapter No. 1050-129
6BY7	6.3	EV-2781-9	17	80	P4	2550	
6CD7	6.3	JR-4507-0	Vary	100	P5	----	Cap = P Cap = P
6CF8	6.3	EV-9613-8	11	65	P4	1500	
6CH6	6.3	EV-2783-9	0	92	P4	6700	Pent. Sect.) Use Hickok Adapter Diode Sect.) Code No. 1050-129
6CJ5	6.3	HS-6158-0	19	65	P4	1500	
6CK5	6.3	HS-6158-0	19	89	P4	4750	Hexode Sect.) Use Hickok Adapter Triode Sect.) Code No. 1050-129
6CM4	6.3	EV-2103-0	18	90	P4	5400	
6CM5	6.3	JR-5047-0	50	89	P4	4700	Triode Sect. Diode No. 1
6CN6	6.3	JR-5047-2	0	93	P4	8500	
6CQ6	6.3	JR-3572-6	11	65	P4	1500	Diode No. 2
6CT7	6.3	HS-6158-4	9	70	P4	1800	
6CT7	6.3	HS-0308-0	0	58	P1 ★	----	Triode No. 1 Triode No. 2
6CU7	6.3	HS-6158-4	14	60	P4	1300	
6CU7	6.3	HS-4308-6	24	66	P4	1500	Pent. Sect. Diode No. 1
6CV7	6.3	HS-3108-0	15	48	P4	1000	
6CV7	6.3	HS-0608-0	0	22	P1 ★	----	Diode No. 2
6CV7	6.3	HS-0508-0	0	22	P1 ★	----	
6CW7	6.3	EV-6907-0	22	90	P4	5750	Heptode Sect. Eng. Scale only. Make no Gas Test
6CW7	6.3	EV-2301-0	22	90	P4	5750	
6DC8	6.3	EV-2613-9	6	81	P4	2900	Triode Sect. Eng. scale only. Make no Gas Test
6DC8	6.3	EV-0803-0	0	42	P1 ★	----	
6DC8	6.3	EV-0703-0	0	42	P1 ★	----	Pent. Sect. Triode Sect. Make no Gas Test
6DG7	6.3	EV-2783-9	0	79	P4	2600	
6DL4	6.3	EV-9802-0	11	84	P4	3500	Use Hickok Adapter #1050-129 Use Hickok Adapter #1050-129 Use Hickok Adapter #1050-129
6DL5	6.3	JR-3562-0	8	84	P4	3600	
6DR8	6.3	EV-2163-9	0	42	P1 ★	----	Solid Bar) Jumper Noval Socket Split Bar) Pins 7 and 9. Connect a 470K, 1/2 watt, 10% resistor from this jumper to Pin 6
6DR8	6.3	EV-0803-0	0	42	P1 ★	----	
6DR8	6.3	EV-0703-0	0	42	P1 ★	----	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6DS8	6.3	EV-7163-2	19	0	P1 ★	----	
6DS8	6.3	EV-9803-0	10	37	P1 ★	----	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6DX8	6.3	EV-8697-0	10	90	P4	5500	
6DX8	6.3	EV-1203-0	10	87	P4	4000	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6ES6	6.3	JR-7652-3	0	64	P1 ★	----	
6ET6	6.3	JR-3652-7	0	71	P1 ★	----	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6F12	6.3	JR-3572-6	15	73	P4	2000	
6F13	6.3	HS-6158-4	10	82	P4	3400	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6F14	6.3	HS-6158-4	10	83	P4	3800	
6F16	6.3	HS-6158-0	19	65	P4	1500	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6F19	6.3	EV-2781-9	17	80	P4	2550	
6F21	6.3	JR-3572-6	11	65	P4	1500	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6FG6	6.3	EV-1603-0	45	---	P4	----	
6FG6	6.3	EV-1603-0	0	---	P4	----	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6FY5	6.3	JR-2503-6	16	90	P4	6000	
6GJ7	6.3	EV-2671-0	10	84	P4	3200	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6GJ7	6.3	EV-9803-0	28	90	P4	4800	
6GM8	6.3	EV-7608-0	20	70	P1 ★	----	Pentode Section Triode Section Triode No.1) OK above Diodes Triode No. 2) OK, Make no Gas Test
6GM8	6.3	EV-2103-0	20	70	P1 ★	----	

TUBE TYPE	FIL.	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
6GV8	6.3	EV-9678-0	26	91	P4	7000	Pent. Sect.
6GV8	6.3	EV-2103-0	20	78	P4	2300	Triode Sect.
6GW8	6.3	EV-8637-0	10	87	P4	4750	Pent. Sect.
6GW8	6.3	EV-1902-0	10	42	P4	900	Triode Sect.
6HA5	6.3	JR-3507-6	19	90	P4	5200	
6HG8	6.3	EV-2893-0	11	73	P4	2000	Pentode Section
6HG8	6.3	EV-6703-0	29	84	P4	3200	Triode Section
6HU6	6.3	EV-1603-0	26	---	P4	----	Solid Bar) Jumper noval socket
6HU6	6.3	EV-1603-0	0	---	P4	----	Split Bar) pins 7 and 9. Connect a 100K ohm, 1/2 watt, 10% resistor from this jumper to pin 6.
6HU8	6.3	EV-6897-0	10	86	P4	4300	Pent. No. 1
6HU8	6.3	EV-2317-0	10	86	P4	4300	Pent. No. 2
6JX8	6.3	EV-2673-1	7	50	---	1100	Heptode Sect. Hold down P1 and Press P4
6JX8	6.3	EV-9803-0	13	73	P4	2000	Triode Sect.
6LD3	6.3	HS-3108-0	15	48	P4	1000	Triode Sect.
6LD3	6.3	HS-0608-0	0	22	P1 ★	----	Diode No. 1
6LD3	6.3	HS-0508-0	0	22	P1 ★	----	Diode No. 2
6N3	6.3	EV-0903-0	0	85	P1 ★	----	
6R3	6.3	EV-0009-0	0	62	★	----	Cap = P. Hold down P6 and press P3
6S2A	6.3	ES-0000-0	0	86	P5 ★	----	Cap = P
6X6	6.3	JR-5407-6	---	---	P4	----	Eyes Open
6X6	6.3	JR-5437-6	---	---	P4	----	Eyes Closed
7AN7	7.5	EV-6907-0	22	90	P4	5750	Triode No. 1
7AN7	7.5	EV-2301-0	22	90	P4	5750	Triode No. 2
7ES8	7.5	EV-7608-0	27	87	P4	4000	Triode No. 1
7ES8	7.5	EV-2103-0	27	87	P4	4000	Triode No. 2
7HG8	7.5	EV-2893-0	11	73	P4	2000	Pent. Sect.
7HG8	7.5	EV-6703-0	29	84	P4	3200	Triode Sect.
8A8	10.0	EV-2637-1	7	83	P4	2950	Pent. Sect.
8A8	10.0	EV-9108-6	26	83	P4	3100	Triode Sect.
8B8	7.5	EV-3672-0	19	88	P4	4300	Pent. Sect.
8B8	7.5	EV-1908-0	6	73	P4	2050	Triode Sect.
8CW5	7.5	EV-2793-0	38	91	P4	6700	
8D3	6.3	JR-3572-6	15	73	P4	2000	
8DX8	7.5	EV-8697-0	10	90	P4	5500	Pent. Sect.
8DX8	7.5	EV-1203-0	10	87	P4	4000	Triode Sect.
9A8	10.0	EV-2637-1	7	83	P4	2950	Pent. Sect.
9A8	10.0	EV-9108-6	26	83	P4	3100	Triode Sect.
9AB4	10.0	JR-6307-0	13	83	P4	3250	
9AK8	10.0	EV-8907-0	8	57	P4	1200	Triode Sect.
9AK8	10.0	EV-0607-0	0	26	P1 ★	----	Diode No. 1
9AK8	10.0	EV-0203-0	0	76	P1 ★	----	Diode No. 2
9AK8	10.0	EV-0107-0	0	76	P1 ★	----	Diode No. 3
9AQ8	10.0	EV-7608-9	21	64	P4	1450	Triode No. 1
9AQ8	10.0	EV-2103-9	21	64	P4	1450	Triode No. 2
9CG8	10.0	EV-9678-0	12	81	P4	3000	Pentode Section
9CG8	10.0	EV-1203-0	20	84	P4	3500	Triode Section
9D6	6.3	JR-3572-6	11	65	P4	1500	
9GV8	10.0	EV-9678-0	26	91	P4	7000	Pent. Sect.
9GV8	10.0	EV-2103-0	20	78	P4	2300	Triode Sect.
12AC5	12.6	HS-6158-0	19	65	P4	1500	Use Hickok Adapter Code No. 1050-129
12AJ7	12.6	EV-2613-7	13	59	P4	1300	Heptode Sect.
12AJ7	12.6	EV-9803-2	21	79	P4	2750	Triode Sect.
12BR3	12.6	EV-0009-0	0	71	---	----	Cap = P. Reverse Meter. Hold down P6 and press P3
12BX6	12.6	EV-2781-9	6	86	P4	3700	
12DA6	12.6	EV-2783-9	8	78	P4	2500	
12GB3	12.6	JR-5047-0	46	95	P4	11500	Cap = P

TUBE TYPE	FIL.	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
31A3	35.0	CX-0108-0	0	74	P1 ★	----	Set Line Adjust to 1350 on 3000 scale. Use Hickok adapter #1050-129.
35D5	35.0	EV-9687-0	31	89	P4	4500	
38A3	35.0	EV-0903-0	0	73	P3 ★	----	
45A5	50.0	HS-6158-0	19	89	P4	4750	Use Hickok adapter #1050-129
45B5	50.0	EV-2793-0	38	91	P4	6700	
5920	6.3	JR-5207-0	29	79	P4	2600	Diode No. 1
5920	6.3	JR-6307-0	29	79	P4	2600	Diode No. 2
6057	12.6	EV-7608-0	7	60	P4	1250	Triode No. 1
6057	12.6	EV-2103-0	7	60	P4	1250	Triode No. 2
6059	6.3	EV-2783-9	17	55	P4	1250	
6060	12.6	EV-7608-0	13	83	P4	3250	Triode No. 1
6060	12.6	EV-2103-0	13	83	P4	3250	Triode No. 2
6061	6.3	EV-2783-9	17	87	P4	4100	
6063	6.3	JR-0607-3	0	27	P3 ★	----	Diode No. 1
6063	6.3	JR-0307-6	0	27	P3 ★	----	Diode No. 2
6064	6.3	JR-3572-0	15	73	P4	2000	
6065	6.3	JR-3572-6	11	65	P4	1500	
6066	6.3	JR-3702-0	10	60	P4	1100	Triode Sect.
6066	6.3	JR-3602-0	0	26	P1 ★	----	Diode No. 1
6066	6.3	JR-3502-0	0	26	P1 ★	----	Diode No. 2
6067	12.6	EV-7608-0	18	75	P4	2200	Triode No. 1
6067	12.6	EV-2103-0	18	75	P4	2200	Triode No. 2
6118	6.3	JR-0307-0	14	38	P4	800	Triode Sect. Cap = G
6118	6.3	JR-0507-0	0	23	P1 ★	----	Diode No. 1
6118	6.3	JR-0407-0	0	23	P1 ★	----	Diode No. 2
6132	6.3	EV-2783-9	0	92	P4	6700	
6227	6.3	EV-2783-9	15	89	P4	2500	
6252	12.6	JS-1034-0	28	80	P4	2500	Tetrode No. 1
Use adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 6 of the large 7 pin socket. Connect the positive (+) end to Pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 6 of the octal socket.							
6252	12.6	JS-6034-0	28	80	P4	2500	Tetrode No. 2
Use adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 1 of the large 7 pin socket. Connect the positive end to Pin 4 of the large 7 Pin socket. Connect the plate jack connector to the cap pin over pin 3 of the octal socket.							
CAUTION! DISCONNECT THE BATTERY (EVEREADY #413) WHEN CHANGING SELECTORS							
6267	6.3	EV-9613-8	11	65	P4	1500	
6360	12.6	EV-3872-0	20	83	P4	3300	Tetrode No. 1
Connect the negative (-) end of a 30 volt battery to Pin No. 2 of the octal test socket.							
6360	12.6	EV-1672-0	20	83	P4	3300	Tetrode No. 2
Connect negative end of a 30 volt battery to Pin No. 3 of the octal test socket.							
Connect positive (+) end of the battery to Pin No. 1 of the octal test socket for each test.							
CAUTION: DISCONNECT BATTERY (EVEREADY No. 413) BETWEEN SELECTOR CHANGES.							
6374	6.3	EV-0003-0	0	54	P3 ★	----	Cap = P
6375	1.1	EV-1800-0	19	83	P4	3400	Use adapter #1050-99
6516	6.3	JR-3572-0	23	80	P4	2600	
6686	6.3	EV-2783-9	15	83	P4	3100	
6687	6.3	JR-7562-3	0	53	P1 & P4	1100	Amp. Sect.
6687	6.3	JR-3562-7	0	50	P4	1050	Osc. Sect.
6688	6.3	EV-2791-8	10	87	P4	4300	
6689	6.3	EV-2613-9	14	88	P4	4200	
6761	6.3	EV-2173-0	25	89	P4	6500	
6907	12.6	JS-1034-0	28	80	P4	2500	Tetrode No. 1
Use adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 6 of the large 7 pin socket. Connect the positive (+) end to Pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over Pin 6 of the octal socket.							
6907	12.6	JS-6034-0	28	80	P4	2500	Tetrode No. 2
Use adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 1 of the large 7 pin socket. Connect the positive (+) end to Pin 4 of the 7 Pin socket. Connect the plate jack connector to the cap pin over Pin 3 of the octal socket.							
CAUTION: DISCONNECT THE BATTERY (EVEREADY #413) WHEN CHANGING SELECTORS.							

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
6922	6.3	EV-7608-0	23	92	P4	6500	Triode No. 1
6922	6.3	EV-2103-0	23	92	P4	6500	Triode No. 2
6927	6.3	JR-5207-0	17	83	P4	3000	Triode No. 1
6927	6.3	JR-6307-0	17	83	P4	3000	Triode No. 2
7062	12.6	EV-7608-1	20	83	P4	3200	Triode No. 1
7062	12.6	EV-2103-6	20	83	P4	3200	Triode No. 2
7308	6.3	EV-7608-0	23	92	P4	6500	Triode No. 1
7308	6.3	EV-2103-0	23	92	P4	6500	Triode No. 2
7320	6.3	EV-2793-0	15	91	P4	5350	
7534	6.3	JR-5047-0	54	89	P4	5000	Cap = P
7643	6.3	EV-2637-1	7	83	P4	2950	Pent. Sect.
7643	6.3	EV-9108-6	26	83	P4	3100	Triode Sect.
7693	6.3	JR-3562-7	12	64	P4	1500	
7694	6.3	JR-3562-7	0	75	P4	2100	
7737	6.3	EV-2791-8	10	87	P4	4300	
7788	6.3	EV-2793-8	15	89	P4	5400	
18045	20.0	EV-2783-9	10	86	P4	4000	
18046	20.0	EV-2783-9	10	86	P4	4000	
AX9903	12.6	JS-1034-0	25	83	P4	3800	Plate No. 1
Plate No. 1 Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 6 of the large 7 pin socket. Connect the positive (+) end of the battery to Pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 6 of the octal socket.							
AX9903	12.6	JS-6034-0	25	83	P4	3800	Plate No. 2
Plate No. 2 Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 1 of the large 7 pin socket. Connect the positive (+) end of the battery to pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 3 of the octal socket.							
CAUTION: DISCONNECT THE BATTERY (EVEREADY #413) WHEN CHANGING SELECTORS							
AZ41	4.3	JX-0600-0	0	16	P3 ★	----	Diode No. 1) Use Hickok Adapter
AZ41	4.3	HY-0200-0	0	16	P3 ★	----	Diode No. 2) #1050-129
B36	12.6	JX-4506-1	20	73	P4	2000	Triode No. 1
B36	12.6	JX-2103-5	20	73	P4	2000	Triode No. 2
B65	6.3	JX-4506-1	20	73	P4	2000	Triode No. 1
B65	6.3	JX-2103-5	20	73	P4	2000	Triode No. 2
C3G	6.3	JR-6345-2	10	86	P4	4000	
CCA	6.3	EV-7608-0	23	92	P4	6500	Triode No. 1
CCA	6.3	EV-2103-0	23	92	P4	6500	Triode No. 2
D77	6.3	JR-0703-0	0	77	P1 ★	----	Diode No. 1
D77	6.3	JR-0205-0	0	77	P1 ★	----	Diode No. 2
D152	6.3	JR-0703-0	0	77	P1 ★	----	Diode No. 1
D152	6.3	JR-0205-0	0	77	P1 ★	----	Diode No. 2
DA90	1.5	HT-0201-0	0	0	P1 ★	----	
DAF91	1.5	DX-6580-0	11	0	P1 & P4	490	Pent. Sect.
DAF91	1.5	HT-0180-0	0	14	P1 ★	----	Diode Sect.
DAF92	1.5	DX-6580-0	11	0	P1 & P4	490	Pent. Sect.
DAF92	1.5	HT-0180-0	0	14	P1 ★	----	Diode Sect.
DC70	1.1	EV-1800-0	19	83	P4	3400	Use Hickok Adapter #1050-99
DC90	1.5	DX-5200-0	38	48	---	1000	Hold down P1 and press P4
DCC90	3.0	DX-5600-0	35	73	P4	2000	Triode No. 1
DCC90	3.0	HT-1200-0	35	73	P4	2000	Triode No. 2
DDR7	6.3	JR-3572-0	23	80	P4	2600	
DF33	1.5	JR-0340-0	11	31	P4	750	
DF61	1.5	DV-0204-1	0	0	P1 ★	----	OK above 500 on 3000 scale. Make no gas test
DF62	1.1	DV-4120-0	17	62	P1 & P4	1400	
DF67	0.6	DV-4210-0	13	0	P1	----	OK above 200 on 3000 scale
DF91	1.5	DX-6210-0	0	21	P1 & P4	650	
DF92	1.5	HT-6210-0	10	49	P4	1025	
DF96	1.5	HT-6210-0	22	10	P4	475	
DF904	1.5	DX-6210-0	14	31	P4	750	
DH63	6.3	JR-0307-2	14	38	P4	800	Triode Cap = G
DH63	6.3	JR-0507-3	0	23	P1 ★	----	Diode No. 1
DH63	6.3	JR-0407-3	0	23	P1 ★	----	Diode No. 2

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
DH77	6.3	JR-3702-0	10	51	P4	1075	Triode Sect.
DH77	6.3	JR-0602-0	0	19	P1 ★	----	Diode No. 1
DH77	6.3	JR-0502-0	0	19	P1 ★	----	Diode No. 2
DK91	1.5	DX-8106-2	60	32	P4	775	
DL33	2.5	JR-5340-0	35	56	P4	1200	
DL35	1.5	JR-5340-0	35	62	P4	1400	
DL36	1.5	JR-5340-0	35	56	P4	1200	
DL63	6.3	JR-0307-2	20	72	P4	1900	Triode Sect. Cap = G
DL63	6.3	JR-0507-3	0	18	P1 ★	----	Diode No. 1
DL63	6.3	JR-0407-3	0	18	P1 ★	----	Diode No. 2
DL66	1.1	DV-4120-0	28	0	P1 & P5	----	OK above 800 on 3000 scale. Use Hickok adapter #1050-99
DL67	1.1	DV-4210-0	9	0	P1	----	OK above 500 on 3000 scale. Use Hickok adapter #1050-99
DL91	1.5	DX-1280-0	25	65	P1 & P4	1500	
DL92	2.5	HT-1280-0	18	64	P1 & P4	1500	
DL93	2.5	DX-8210-0	35	66	P4	1600	
DL94	3.0	DX-6210-0	22	43	---	900	Hold down P1 and Press P4
DL95	3.0	HT-1280-0	15	75	P4	2150	
DL96	2.5	DX-6210-0	41	56	P4	1200	
DL98	2.5	JV-1730-0	50	69	P4	1700	Short on 3
DM70	1.5	EV-1800-0	--	--	P5	----	Adjust Bias to vary bar length. Do not adjust Bias below 30.
DM71	1.5	EV-1800-0	--	--	P5	----	Adjust Bias to vary bar length. Do not adjust below 30.
DP61	6.3	JR-3562-0	20	65	P4	1500	
DY30	1.1	JR-0000-0	0	80	P5 ★		Cap = P. OK above Diodes OK
DY86	1.5	ES-0000-0	0	84	P5 ★	----	Cap = P
DY87	1.5	ES-0000-0	0	84	P5 ★	----	Cap = P
E80CC	12.6	EV-7608-0	12	80	P4	2700	Triode No. 1
E80CC	12.6	EV-2103-0	12	80	P4	2700	Triode No. 2
E80CF	6.3	EV-2637-1	7	83	P4	2950	Pent. Sect.
E80CF	6.3	EV-9108-6	26	83	P4	3100	Triode Sect.
E80F	6.3	EV-9613-8	11	71	P4	1850	
E80L	6.3	EV-2783-9	15	89	P4	2500	
E81CC	12.6	EV-7608-0	13	83	P4	3250	Triode No. 1
E81CC	12.6	EV-2103-0	13	83	P4	3250	Triode No. 2
E81L	6.3	EV-2783-9	15	83	P4	3100	
E82CC	12.6	EV-7608-0	17	75	P4	2200	Triode No. 1
E82CC	12.6	EV-2103-0	17	75	P4	2200	Triode No. 2
E83CC	12.6	EV-7608-0	7	60	P4	1250	Triode No. 1
E83CC	12.6	EV-2103-0	7	60	P4	1250	Triode No. 2
E83F	6.3	EV-2613-9	14	88	P4	4200	
E84L	6.3	EV-2793-0	15	91	P4	5350	
E86C	6.3	EV-2103-0	18	90	P4	5400	
E88CC	6.3	EV-7608-0	23	92	P4	6500	Triode No. 1
E88CC	6.3	EV-2103-0	23	92	P4	6500	Triode No. 2
E90CC	6.3	JR-5207-0	29	79	P4	2600	Triode No. 1
E90CC	6.3	JR-6307-0	29	79	P4	2600	Triode No. 2
E90F	6.3	JR-3562-7	12	64	P4	1500	
E91AA	6.3	JR-0703-6	0	77	P1 ★	----	Diode No. 1
E91AA	6.3	JR-0205-6	0	77	P1 ★	----	Diode No. 2
E91H	6.3	JR-7562-3	0	53	P1 & P4	1100	Amp. Sect.
E91H	6.3	JR-3562-7	0	50	P4	1050	Osc. Sect.
E91N	6.3	JR-3602-5	#	93	P5 ★	----	Strikes at about 26
E92CC	6.3	JR-6307-0	15	88	P4	4800	Triode No. 1
E92CC	6.3	JR-5207-0	15	88	P4	4800	Triode No. 2
E95F	6.3	JR-3562-0	20	65	P4	1500	
E99F	6.3	JR-3562-7	0	75	P4	2100	
E130L	6.3	JR-5047-0	54	89	P4	5000	Cap = P
E180CC	12.6	EV-7608-0	20	83	P4	3200	Triode No. 1
E180CC	12.6	EV-2103-0	20	83	P4	3200	Triode No. 2
E180F	6.3	EV-2791-8	10	87	P4	4300	

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
E182CC	12. 6	EV-7906-0	27	93	P4	10,000	Triode No. 1
E182CC	12. 6	EV-2103-0	27	93	P4	10,000	Triode No. 2
E182F	6. 3	DZ-1684-0	10	86	P4	3850	
E186F	6. 3	EV-2791-8	10	87	P4	4300	
E188CC	6. 3	EV-7608-0	23	92	P4	6500	Triode No. 1
E188CC	6. 3	EV-2103-0	23	92	P4	6500	Triode No. 2
E810F	6. 3	EV-2793-8	15	89	P4	5400	
E2134	6. 3	JR-3572-0	21	88	P4	5000	
EAA91	6. 3	JR-0703-6	0	77	P1 ★	----	Diode No. 1
EAA91	6. 3	JR-0205-6	0	77	P1 ★	----	Diode No. 2
EABC80	6. 3	EV-8907-0	8	57	P4	1200	Triode Sect.
EABC80	6. 3	EV-0607-0	0	26	P1 ★	----	Diode No. 1
EABC80	6. 3	EV-0203-0	0	76	P1 ★	----	Diode No. 2
EABC80	6. 3	EV-0107-0	0	76	P1 ★	----	Diode No. 3
EAF42	6. 3	HS-6158-4	9	70	P4	1800	Pent. Sect.) Use Hickok Adapter
EAF42	6. 3	HS-0308-0	0	58	P1 ★	----	Diode Sect.) #1050-129
EB41	6. 3	HS-0608-0	0	77	P1 ★	----	Diode No. 1
EB41	6. 3	HS-0403-0	0	77	P1 ★	----	Diode No. 2
EB91	6. 3	JR-0703-6	0	77	P1 ★	----	Diode No. 1
EB91	6. 3	JR-0205-6	0	77	P1 ★	----	Diode No. 2
EBC3	6. 3	JR-0307-2	20	72	P4	1900	Triode Sect Cap = G
EBC3	6. 3	JR-0507-3	0	18	P1 ★	----	Diode No. 1
EBC3	6. 3	JR-0407-3	0	18	P1 ★	----	Diode No. 2
EBC33	6. 3	JR-0307-2	20	72	P4	1900	Triode Sect. Cap = G
EBC33	6. 3	JR-0507-3	0	18	P1 ★	----	Diode No. 1
EBC33	6. 3	JR-0407-3	0	18	P1 ★	----	Diode No. 2
EBC41	6. 3	HS-3108-0	15	48	P4	1000	Triode Sect.) Use Hickok
EBC41	6. 3	HS-0608-0	0	22	P1 ★	----	Diode No. 1) Adapter Code
EBC41	6. 3	HS-0508-0	0	22	P1 ★	----	Diode No. 2) #1050-129
EBC81	6. 3	EV-2103-0	15	48	P4	1000	Triode Sect.
EBC81	6. 3	EV-0603-0	0	22	P1 ★	----	Diode No. 1
EBC81	6. 3	EV-0803-0	0	22	P1 ★	----	Diode No. 2
EBC90	6. 3	JR-3702-0	10	60	P4	1100	Triode Sect.
EBC90	6. 3	JR-3602-0	0	26	P1 ★	----	Diode No. 1
EBC90	6. 3	JR-3502-0	0	26	P1 ★	----	Diode No. 2
EBC91	6. 3	JR-3702-0	7	60	P4	1250	Triode Sect.
EBC91	6. 3	JR-0602-0	0	26	P1 ★	----	Diode No. 1
EBC91	6. 3	JR-0502-0	0	26	P1 ★	----	Diode No. 2
EBF32	6. 3	JR-0367-2	12	53	P4	1150	Pent. Sect. Cap = G
EBF32	6. 3	JR-0567-2	24	0	P1 ★	----	Diode No. 1
EBF32	6. 3	JR-0467-2	24	0	P1 ★	----	Diode No. 2
EBF80	6. 3	EV-2613-9	5	73	P4	2200	Pent. Sect.
EBF80	6. 3	EV-0703-0	0	22	P1 ★	----	Diode No. 1
EBF80	6. 3	EV-0803-0	0	22	P1 ★	----	Diode No. 2
EBF83	6. 3	EV-2163-9	0	42	P4	3600	Pent. Sect.
EBF83	6. 3	EV-0803-0	0	42	P1 ★	----	Diode No. 1
EBF83	6. 3	EV-0703-0	0	42	P1 ★	----	Diode No. 2
EBF89	6. 3	EV-2613-9	6	81	P4	2900	Pent. Sect.
EBF89	6. 3	EV-0803-0	0	42	P1 ★	----	Diode No. 1
EBF89	6. 3	EV-0703-0	0	42	P1 ★	----	Diode No. 2
EC80	6. 3	EV-1903-0	12	88	P4	4200	
EC81	6. 3	EV-1803-0	22	87	P4	4000	
EC86	6. 3	EV-2103-0	18	90	P4	5400	
EC88	6. 3	EV-9802-0	11	84	P4	3500	
EC90	6. 3	JR-6307-0	23	75	P4	2200	
EC91	6. 3	JR-3702-0	11	86	P4	3700	
EC92	6. 3	JR-6307-0	13	83	P4	3250	
EC93	6. 3	JR-2305-0	38	87	P4	5600	
EC95	6. 3	JR-2567-0	10	89	P4	5200	
EC97	6. 3	JR-2503-6	16	90	P4	6000	
EC806S	6. 3	EV-2103-0	18	90	P4	5400	
EC900	6. 3	JR-3507-6	19	90	P4	5200	
ECC33	6. 3	JX-4506-0	8	84	P4	3300	Triode No. 1
ECC33	6. 3	JX-2103-0	8	84	P4	3300	Triode No. 2

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
ECC40	6.3	HS-6508-0	17	82	P4	2900	Triode No. 1) Use Hickok Adapter
ECC40	6.3	HS-3104-0	17	82	P4	2900	Triode No. 2) #1050-129
ECC81	12.6	EV-7608-0	13	83	P4	3250	Triode No. 1
ECC81	12.6	EV-2103-0	13	83	P4	3250	Triode No. 2
ECC82	12.6	EV-7608-0	17	75	P4	2200	Triode No. 1
ECC82	12.6	EV-2103-0	17	75	P4	2200	Triode No. 2
ECC83	12.6	EV-7608-0	7	60	P4	1250	Triode No. 1
ECC83	12.6	EV-2103-0	7	60	P4	1250	Triode No. 2
ECC84	6.3	EV-6907-0	22	90	P4	5750	Triode No. 1
ECC84	6.3	EV-2103-0	22	90	P4	5750	Triode No. 2
ECC85	6.3	EV-7608-0	21	64	P4	1450	Triode No. 1
ECC85	6.3	EV-2103-0	21	64	P4	1450	Triode No. 2
ECC86	6.3	EV-7608-0	17	70	P1	----	Triode No. 1) OK above Diodes OK
ECC86	6.3	EV-2103-0	17	70	P1	----	Triode No. 2) Make no Gas Test
ECC88	6.3	EV-7608-0	16	93	P4	9250	Triode No. 1
ECC88	6.3	EV-2103-0	16	93	P4	9250	Triode No. 2
ECC91	6.3	JR-5207-0	17	83	P4	3000	Triode No. 1
ECC91	6.3	JR-6307-0	17	83	P4	3000	Triode No. 2
ECC186	12.6	EV-7608-0	17	75	P4	2200	Triode No. 1
ECC186	12.6	EV-2103-0	17	75	P4	2200	Triode No. 2
ECC189	6.3	EV-7608-0	17	93	P4	8750	Triode No. 1
ECC189	6.3	EV-2103-0	17	93	P4	8750	Triode No. 2
ECC230	6.3	JX-4506-1	0	44	P3 ★	----	Triode No. 1
ECC230	6.3	JX-2103-5	0	44	P3 ★	----	Triode No. 2
ECC801S	12.6	EV-7608-0	13	83	P4	2250	Triode No. 1
ECC801S	12.6	EV-2103-0	13	83	P4	2250	Triode No. 2
ECC802S	12.6	EV-7608-0	17	75	P4	2200	Triode No. 1
ECC802S	12.6	EV-2103-0	17	75	P4	2200	Triode No. 2
ECC960	6.3	JR-5207-0	29	79	P4	2600	Triode No. 1
ECC960	6.3	JR-6307-0	29	79	P4	2600	Triode No. 2
ECF80	6.3	EV-2637-1	7	83	P4	2950	Pent. Sect.
ECF80	6.3	EV-9108-6	26	83	P4	3100	Triode Sect.
ECF82	6.3	EV-2637-0	7	75	P4	2200	Pent. Sect.
ECF82	6.3	EV-9108-0	12	88	P4	5000	Triode Sect.
ECF83	6.3	EV-9687-0	11	64	P1 & P4	1500	Pent. Sect.
ECF83	6.3	EV-2301-0	56	65	P4	1400	Triode Sect.
ECF86	6.3	EV-2893-0	9	73	P4	2000	Pent. Sect.
ECF86	6.3	EV-6703-0	28	85	P4	3200	Triode Sect.
ECF801	6.3	EV-2671-0	10	84	P4	3200	Pentode Section
ECF801	6.3	EV-9803-0	28	90	P4	4800	Triode Section
ECF804	6.3	EV-2637-0	14	82	P4	2800	Pentode Section
ECF804	6.3	EV-9108-0	17	89	P4	5400	Triode Section
ECH35	6.3	JR-0347-5	10	62	P4	1400	Hexode Sect. Cap = G
ECH35	6.3	JR-5607-4	10	83	P4	3200	Triode Sect.
ECH42	6.3	HS-6158-4	14	60	P4	1300	Hexode Sect.) Use Hickok Adapter
ECH42	6.3	HS-4308-6	24	66	P4	1500	Triode Sect.) #1050-129
ECH81	6.3	EV-2613-7	13	59	P4	1300	Heptode Sect.
ECH81	6.3	EV-9803-2	21	79	P4	2750	Triode Sect.
ECH83	6.3	EV-7163-2	19	0	P1 ★	----	Heptode - Eng. Scale) Make no only) Gas
ECH83	6.3	EV-9803-0	10	37	P1 ★	----	Triode - Eng. Scale) Test only
ECH84	6.3	EV-2673-1	7	50	--	1100	Heptode Sect. Hold down P1 and press P4
ECH84	6.3	EV-9803-0	13	73	P4	2000	Triode Sect.
ECL80	6.3	EV-9683-7	14	83	P4	3300	Pent. Sect.
ECL80	6.3	EV-2103-0	33	61	P4	1350	Triode Sect.
ECL82	6.3	EV-3672-0	19	88	P4	4300	Pent. Sect.
ECL82	6.3	EV-1908-0	6	73	P4	2050	Triode Sect.
ECL84	6.3	EV-8697-0	10	90	P4	5500	Pent. Sect.
ECL84	6.3	EV-1203-0	10	87	P4	4000	Triode Sect.
ECL85	6.3	EV-9678-0	26	91	P4	7000	Pent. Sect.
ECL85	6.3	EV-2103-0	20	78	P4	2300	Triode Sect.

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
ECL86	6.3	EV-8637-0	10	87	P4	4750	Pent. Sect.
ECL86	6.3	EV-1902-0	10	42	P4	900	Triode Sect.
EF22	6.3	JR-6237-4	14	73	P4	2000	
EF40	6.3	HS-5168-4	10	68	P4	1700	Use adapter #1050-129
EF41	6.3	HS-6158-0	19	65	P4	1500	Use adapter #1050-129
EF42	6.3	HS-6158-4	10	81	P4	2600	Use adapter #1050-129
EF80	6.3	EV-2781-9	6	86	P4	3700	
EF85	6.3	EV-2781-9	17	80	P4	2550	
EF86	6.3	EV-9613-8	11	65	P4	1500	
EF89	6.3	EV-2783-9	8	78	P4	2500	
EF91	6.3	JR-3572-6	15	73	P4	2000	
EF92	6.3	JR-3572-6	11	35	P4	1500	
EF93	6.3	EV-2783-9	0	79	P4	2600	
EF94	6.3	JR-3567-2	11	70	P4	1900	
EF95	6.3	JR-3562-0	20	65	P4	1500	
EF96	6.3	JR-3562-0	0	74	P4	3400	
EF97	6.3	JR-7652-3	0	64	P1 ★	----	Make no gas test
EF98	6.3	JR-3652-7	0	71	P1 ★	----	
EF183	6.3	EV-2781-9	16	88	P4	2500	
EF184	6.3	EV-2781-9	10	84	P4	3400	
EF731	6.3	DW-1574-0	15	73	P4	2000	Use Hickok adapter 1050-99
EF732	6.3	DW-1574-0	14	78	P4	2500	Use Hickok adapter 1050-99
EF800	6.3	EV-2781-9	6	86	P4	3700	
EF804	6.3	EV-9783-1	11	65	P4	1500	
EF861	6.3	EV-2791-8	10	87	P4	4300	
EH90	6.3	JR-3562-7	0	0	P1 & P4	425	Grid No. 1
EH90	6.3	JR-7562-3	0	15	P1 & P4	600	Grid No. 2
EK90	6.3	JR-7562-3	0	14	P1 & P4	600	Amp. Sect.
EK90	6.3	JR-3562-7	20	87	P4	4400	Osc. Sect.
EL34	6.3	JR-5347-2	21	91	P4	6000	
EL36	6.3	JR-5047-0	50	89	P4	4700	Cap = P
EL37	6.3	JR-5347-2	18	89	P4	5000	
EL38	6.3	JR-5047-0	0	93	P4	8500	Cap = P
EL41	6.3	HS-6158-0	19	89	P4	4750	Use adapter Code No. 1050-129
EL42	6.3	HS-6158-0	14	82	P4	3200	Use Hickok adapter Code No. 1050-129
EL81	6.3	EV-2073-1	47	89	P4	4600	Cap = P
EL83	6.3	EV-2713-6	0	90	P4	5000	
EL84	6.3	EV-2713-0	15	91	P4	5350	
EL85	6.3	EV-2793-6	14	82	P4	3200	
EL86	6.3	EV-2793-0	38	91	P4	6700	
EL90	6.3	JR-3562-0	13	87	P4	4100	
EL91	6.3	JR-3572-0	23	80	P4	2600	
EL95	6.3	JR-3562-0	8	84	P4	3600	
EL360	6.3	JR-5047-0	50	89	P4	4700	
EL803	6.3	EV-2713-6	0	90	P4	5000	
EL821	6.3	EV-2783-9	0	92	P4	6700	
EL822	6.3	EV-2783-9	0	92	P4	6700	
ELL80	6.3	EV-2317-0	10	86	P4	4300	Pent. No. 1
ELL80	6.3	EV-6897-0	10	86	P4	4300	Pent. No. 2
EM34	6.3	JR-4507-0	Vary	100	P5	----	Connect 1 megohm resistor from Plate Jack to pin 3 of large 7 pin socket. Connect a second 1 megohm resistor from Plate Jack to pin 6 of large 7 pin socket. Set Micromhos switch on English position. Eye one closed at Bias of about 30. Eye two closed at Bias of about 55.
EM80	6.3	EV-1902-0	Vary	100	P5	----	Connect a 1 megohm resistor from Plate Jack to octal test socket pin #8. Vary Bias to vary beam angle.
EM81	6.3	EV-1902-0	Vary	100	P5	----	Connect a 1 megohm resistor from Plate Jack to octal test socket pin #8. Vary Bias to vary beam angle.
EM84	6.3	EV-1603-0	45	--	P4	----	Solid bar
EM84	6.3	EV-1603-0	0	--	P4	----	Split bar
Jumper noval socket pins 7 and 9. Connect a 470K ohm, 1/2 watt, 10% resistor from this jumper to pin 6 for both tests.							

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
EM87	6.3	EV-1603-0	26	--	P4	----	Solid Bar
EM87	6.3	EV-1603-0	0	--	P4	----	Split Bar
Jumper noval socket pins 7 and 9. Connect a 100K ohm, 1/2 watt, 10% resistor from this jumper to pin 6 for both tests.							
EQ80	6.3	EV-7163-9	27	48	P4	100	
EY80	6.3	EV-0903-0	0	62	P3 ★	----	
EY81	6.3	EV-0009-0	0	62	★	----	Cap = P. Hold down P6 and press P3
EY82	6.3	EV-0903-0	0	85	P1 ★	----	
EY84	6.3	EV-0003-0	0	54	P3 ★	----	Cap = P
EY86	6.3	ES-0000-0	0	84	P5 ★	----	Cap = P
EY87	6.3	ES-0000-0	0	84	P5 ★	----	Cap = P
EY88	6.3	EV-0009-0	0	68	--	----	Cap = P. Hold down P6 and press P3. Disregard shorts test.
EY91	6.3	JR-0302-0	0	24	P3 ★	----	
EZ35	6.3	JR-0507-2	0	37	P3 ★	----	Plate No. 1
EZ35	6.3	JR-0307-2	0	37	P3 ★	----	Plate No. 2
EZ40	6.3	HS-0108-0	0	28	P3 ★	----	Diode No. 1) Use Hickok Adapter
EZ40	6.3	HS-0608-0	0	28	P3 ★	----	Diode No. 2) Code No. 1050-129
EZ80	6.3	EV-0703-1	0	30	P3 ★	----	Plate No. 1
EZ80	6.3	EV-0103-7	0	30	P3 ★	----	Plate No. 2
EZ81	6.3	EV-0703-0	0	52	P3 ★	----	Plate No. 1
EZ81	6.3	EV-0103-0	0	52	P3 ★	----	Plate No. 2
EZ90	6.3	JR-0607-3	0	24	P3 ★	----	Plate No. 1
EZ90	6.3	JR-0307-6	0	24	P3 ★	----	Plate No. 2
GZ30	5.0	HR-0600-0	0	75	P3 ★	----	Plate No. 1
GZ30	5.0	HR-0400-0	0	75	P3 ★	----	Plate No. 2
GZ32	5.0	HR-0600-0	0	64	P3 ★	----	Plate No. 1
GZ32	5.0	HR-0400-0	0	64	P3 ★	----	Plate No. 2
GZ33	5.0	HR-0600-0	0	70	P3 ★	----	Plate No. 1
GZ33	5.0	HR-0400-0	0	70	P3 ★	----	Plate No. 2
GZ34	5.0	HR-0600-0	0	63	P3 ★	----	Plate No. 1
GZ34	5.0	HR-0400-0	0	63	P3 ★	----	Plate No. 2
H63	6.3	JR-0407-2	7	49	P4	1000	Cap = G
HABC80	20.0	EV-8907-6	8	49	P4	1000	Triode Sect.
HABC80	20.0	EV-0607-1	0	70	P1 ★	----	Diode No. 1
HABC80	20.0	EV-0203-7	0	70	P1 ★	----	Diode No. 2
HABC80	20.0	EV-0107-8	0	70	P1 ★	----	Diode No. 3
HBC90	12.6	JR-3702-0	10	60	P4	1100	Triode Sect.
HBC90	12.6	JR-3602-0	0	26	P1 ★	----	Diode No. 1
HBC90	12.6	JR-3502-0	0	26	P1 ★	----	Diode No. 2
HBC91	12.6	JR-3702-0	7	60	P4	1250	Triode Sect.
HBC91	12.6	JR-0602-0	0	26	P1 ★	----	Diode No. 1
HBC91	12.6	JR-0502-0	0	26	P1 ★	----	Diode No. 2
HCC85	20.0	EV-7608-0	16	84	P4	3400	Triode No. 1) Set Line Adjust to
HCC85	20.0	EV-2103-0	16	84	P4	3400	Triode No. 2) 1450 on 3000 scale.
HCH81	12.6	EV-2613-7	13	59	P4	1300	Heptode Sect.
HCH81	12.6	EV-9803-2	21	79	P4	2750	Triode Sect.
HD14	1.5	JR-0300-0	21	--	P4	275	Cap = G Triode Sect.
HD14	1.5	JR-0500-0	0	35	P1 ★	----	Diode Sect.
HD30	2.5	JV-1730-0	45	69	P4	1700	
HD93	1.1	JR-0000-0	0	80	P5	----	OK above Diodes OK. Cap = P
HD94	6.3	JR-5047-0	51	86	P4	4500	Cap = P
HD96	25.0	JR-5047-0	51	86	P4	4500	Cap = P
HF93	12.6	JR-3567-2	0	79	P4	2700	
HF94	12.6	JR-3567-2	11	70	P4	1900	
HK90	12.6	JR-7562-3	0	14	P1 & P4	600	Amp. Sect.
HK90	12.6	JR-3562-7	20	87	P4	4400	Osc. Sect.
HL90	20.0	JR-3562-0	13	87	P4	4100	
HL92	50.0	JR-2763-0	8	93	P1 & P4	7500	
HL94	35.0	JR-2763-0	38	91	P4	6700	Before placing tube in socket
jumper a 33 ohm, 2 w resistor between pins 9 and 8 of the 9 pin min. socket. (counting counter-clockwise). Then proceed with test.							

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
HMO4	6.3	JR-7562-3	0	14	P1 & P4	600	Ampl. Sect.
HMO4	6.3	JR-3602-7	20	87	P4	4400	Osc. Sect.
HP6	6.3	JR-3572-6	15	73	P4	2000	
HY90	35.0	JR-0507-0	0	78	P3 ★		
KT61	6.3	JR-5347-0	10	87	P4	4500	
KT66	6.3	JR-5347-2	13	92	P4	6700	
KT88	6.3	JR-5347-2	18	92	P4	7000	
KTZ63	6.3	JR-0347-5	7	57	P4	1225	Cap = G
L63	6.3	JR-5307-0	20	79	P4	2600	
L77	6.3	JR-6307-0	23	75	P4	2200	
LC900	2.5	JR-3502-0	19	90	P4	5200	
LN119	50.0	EV-3672-0	19	88	P4	4300	Pent. Sect.
LN119	50.0	EV-1908-0	6	73	P4	2050	Triode Sect.
LN152	6.3	EV-9683-7	14	83	P4	3300	Pent. Sect.
LN152	6.3	EV-2103-0	33	61	P4	1350	Triode Sect.
M8079	6.3	JR-0703-6	0	77	P1 ★		Diode No. 1
M8079	6.3	JR-0205-6	0	77	P1 ★		Diode No. 2
M8081	6.3	JR-5207-0	17	83	P4	3000	Triode No. 1
M8081	6.3	JR-6307-0	17	83	P4	3000	Triode No. 2
M8100	6.3	JR-3562-0	20	65	P4	1500	
M8136	12.6	EV-7608-0	17	75	P4	2200	Triode No. 1
M8136	12.6	EV-2103-0	17	75	P4	2200	Triode No. 2
M8137	12.6	EV-7608-0	7	60	P4	1250	Triode No. 1
M8137	12.6	EV-2103-0	7	60	P4	1250	Triode No. 2
M8162	12.6	EV-7608-0	13	83	P4	3250	Triode No. 1
M8162	12.6	EV-2103-0	13	83	P4	3250	Triode No. 2
N17	2.5	HT-1280-0	18	64	P1 & P4	1500	
N18	3.0	HT-1280-0	15	75	P4	2150	
N19	3.0	DX-6210-0	29	68	P4	1650	
N77	6.3	JR-3572-0	23	80	P4	2600	
N78	6.3	JR-3572-0	8	90	P4	4850	
N119	50.0	EV-2793-0	38	91	P4	6700	
N144	6.3	JR-3572-0	23	80	P4	2600	
N151	6.3	HS-6158-0	14	82	P4	3200	Use Hickok adapter 1050-129
N152	20.0	EV-2083-9	42	92	P4	6000	Cap = P
N153	12.6	EV-2713-6	8	90	P4	6200	
N154	20.0	EV-2793-0	24	90	P4	5000	Disregard shorts test after Gm
test is completed. Allow 60 sec. for heater warm-up. Allow 5 sec. to obtain Gm reading. Make line test at 1300 on 3000 scale.							
N309	12.6	EV-2713-6	8	90	P4	6200	
N329	20.0	EV-2793-0	24	90	P4	5000	Disregard shorts test after Gm
test is completed. Allow 60 sec. for heater warm-up. Allow 5 sec. to obtain Gm reading. Make line test at 1300 on 3000 scale.							
N359	20.0	EV-2083-9	42	92	P4	6000	Cap = P
N709	6.3	EV-2793-0	15	91	P4	5350	
N727	6.3	JR-3562-0	13	87	P4	4100	
OM4	6.3	JR-0307-2	20	72	P4	1900	Triode Sect. Cap = G
OM4	6.3	JR-0507-3	0	18	P1 ★	----	Diode No. 1
OM4	6.3	JR-0407-3	0	18	P1 ★	----	Diode No. 2
PABC80	10.0	EV-8907-0	8	57	P4	1200	Triode Sect.
PABC80	10.0	EV-0607-0	0	26	P1 ★	----	Diode No. 1
PABC80	10.0	EV-0203-0	0	76	P1 ★	----	Diode No. 2
PABC80	10.0	EV-0107-0	0	76	P1 ★	----	Diode No. 3
PC86	4.3	EV-2103-0	19	88	P4	4650	
PC95	3.0	JR-2567-0	10	89	P4	5200	
PC97	4.3	JR-2503-6	18	89	P4	4900	
PCC84	7.5	EV-6907-0	22	90	P4	5750	Triode No. 1
PCC84	7.5	EV-2301-0	22	90	P4	5750	Triode No. 2
PCC85	10.0	EV-7608-9	21	64	P4	1450	Triode No. 1
PCC85	10.0	EV-2103-9	21	64	P4	1450	Triode No. 2
PCC88	7.5	EV-7608-0	16	93	P4	9250	Triode No. 1
PCC88	7.5	EV-2103-0	16	93	P4	9250	Triode No. 2
PCC189	7.5	EV-7608-0	17	93	P4	8750	Triode No. 1
PCC189	7.5	EV-2103-0	17	93	P4	8750	Triode No. 2

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
PCF80	10.0	EV-2637-1	7	83	P4	2950	Pent. Sect.
PCF80	10.0	EV-9108-6	26	83	P4	3100	Triode Sect.
PCF82	10.0	EV-2637-0	7	75	P4	2200	Pent. Sect.
PCF82	10.0	EV-9108-0	12	88	P4	5000	Triode Sect.
PCF86	7.5	EV-2893-0	11	73	P4	2000	Pent. Sect.
PCF86	7.5	EV-6703-0	29	84	P4	3200	Triode Sect.
PCL82	20.0	EV-3672-0	13	90	P4	5500	Pent. Sect.)Set line adjust to
PCL82	20.0	EV-1908-0	17	48	P4	1000	Triode Sect.)1450 on 3000 scale
PCL84	12.6	EV-8697-0	10	90	P4	5900	Pent. Sect.
PCL84	12.6	EV-1203-0	10	87	P4	4000	Triode Sect.
PCL85	20.0	EV-9678-0	26	91	P4	7000	Pent. Sect.
PCL85	20.0	EV-2103-0	20	78	P4	2300	Triode Sect.
PCL86	12.6	EV-8637-0	10	87	P4	4750	Pent. Sect.
PCL86	12.6	EV-1902-0	10	42	P4	900	Triode Sect.
PF86	4.3	EV-9613-8	11	65	P4	1500	
PL21	6.3	JR-3602-5	#	95	P5 ★	----	Strikes at about 27
PL36	25.0	JR-5047-0	50	89	P4	4700	Cap = P
PL81	20.0	EV-2083-9	42	92	P4	6000	Cap = P
PL82	20.0	EV-2793-0	24	90	P4	5000	Disregard shorts test after Gm
test is completed. Allow 60 sec. for heater warm-up. Allow 5 sec. to obtain Gm reading. Make line test at 1300 on 3000 scale.							
PL84	12.6	EV-2793-0	41	88	P4	5000	Make line test at 1700 on 3000 scale.
PLL80	12.6	EV-2317-0	10	86	P4	4300	Pent. No. 1
PLL80	12.6	EV-6897-0	10	86	P4	4300	Pent. No. 2
PMO4	6.3	EV-2783-9	0	79	P4	2600	
PMO5	6.3	JR-3562-0	20	65	P4	1500	
PMO7	6.3	JR-3572-6	15	73	P4	2000	
PY80	20.0	EV-0903-0	0	63	P3 ★	----	
PY81	20.0	EV-0009-0	0	62	---	----	Cap = P. Hold down P6 and press P3.
PY82	20.0	EV-0903-0	0	63	P3 ★	----	
PY88	25.0	EV-0009-0	0	63	---	----	(Cap = P. Hold down P6 and
PY88	OFF	EV-0009-0	SHORT TEST ONLY				(press P3. Disregard shorts test.
QA2403	6.3	JR-3572-6	15	73	P4	2000	
QA2406	12.6	EV-7608-0	13	83	P4	3250	Triode No. 1
QA2406	12.6	EV-2103-0	13	83	P4	3250	Triode No. 2
QQEO2/5	12.6	EV-3872-0	10	88	P4	5000	Tetrode No. 1
Connect negative (-) end of a 30 V battery to Pin #2 of the octal test socket.							
QQEO2/5	12.6	EV-1672-0	10	88	P4	5000	Tetrode No. 2
Connect negative (-) end of a 30 V battery to Pin #3 of the octal test socket.							
Connect positive (+) end of a 30 V battery (Eveready #413) to Pin #1 of the octal test socket for both tests.							
CAUTION: DISCONNECT BATTERY BETWEEN SELECTOR CHANGES.							
QQEO3/12	12.6	EV-3872-0	20	83	P4	3300	Tetrode No. 1
Connect negative (-) end of a 30 V battery to Pin No. 2 of octal test socket.							
QQEO3/12	12.6	EV-1672-0	20	83	P4	3300	Tetrode No. 2
Connect negative (-) end of a 30-volt battery to Pin No. 3 of octal test socket.							
Connect positive (+) end of a 30-volt battery (Eveready No. 413) to Pin No. 1 of octal test socket for each test.							
CAUTION: DISCONNECT BATTERY BETWEEN SELECTOR CHANGES.							
QQEO3/20	12.6	JS-1034-0	28	80	P4	2500	Tetrode No. 1
Tetrode No. 1 - Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 6 of the large 7 pin socket. Connect the positive (+) end of the battery to pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 6 of the octal socket.							
QQEO3/20	12.6	JS-6034-0	28	80	P4	2500	Tetrode No. 2
Tetrode No. 2 - Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 1 of the large 7 pin socket. Connect the positive (+) end of the battery to pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 3 of the octal socket.							
CAUTION: DISCONNECT THE BATTERY (EVEREADY NO. 413) WHEN CHANGING SELECTORS.							

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
QQEO6/40	12.6	JS-1034-0	25	83	P4	3800	Plate No. 1 Plate No. 1 - Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 6 of the large 7 pin socket. Connect the positive (+) end of the battery to pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 6 of the octal socket.
QQEO6/40	12.6	JS-6034-0	25	83	P4	3800	Plate No. 2 Plate No. 2 - Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 1 of the large 7 pin socket. Connect the positive (+) end of the battery to pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 3 of the octal socket. CAUTION: DISCONNECT THE BATTERY (EVEREADY NO. 413) WHEN CHANGING SELECTORS
QQVO3/10	12.6	EV-3872-0	20	83	P4	3300	Tetrode No. 1 Connect negative (-) end of a 30 volt battery to Pin No. 2 of octal test socket.
QQVO3/10	12.6	EV-1672-0	20	83	P4	3300	Tetrode No. 2 Connect negative (-) end of a 30 volt battery to Pin No. 3 of octal test socket. Connect positive (+) end of the 30 volt battery (Eveready No. 413) to Pin No. 1 of octal test socket for each test. CAUTION: DISCONNECT BATTERY BETWEEN SELECTOR CHANGES
QQVO3/20A (AX-9910)	12.6	JS-1034-0	28	80	P4	2500	Tetrode No. 1 Tetrode No. 1 - Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 6 of the large 7 pin socket. Connect the positive (+) end of the battery to pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 6 of the octal socket.
QQVO3/20A (AX-9910)	12.6	JS-6034-0	28	80	P4	2500	Tetrode No. 2 Tetrode No. 2 - Use Adapter #1050-107. Connect the negative (-) end of a 30 volt battery to Pin 1 of the large 7 pin socket. Connect the positive (+) end of the battery to pin 4 of the large 7 pin socket. Connect the plate jack connector to the cap pin over pin 3 of the octal socket. CAUTION: DISCONNECT THE BATTERY (EVEREADY NO. 413) WHEN CHANGING SELECTORS.
U26	6.3	ES-0000-0	0	86	P5 ★	----	Cap = P
U49	6.3	ES-0000-0	0	86	P5 ★	----	Cap = P
U70	6.3	JR-0507-2	0	37	P3 ★	----	Diode No. 1
U70	6.3	JR-0307-2	0	37	P3 ★	----	Diode No. 2
U78	6.3	JR-0607-3	0	24	P3 ★	----	Diode No. 1
U78	6.3	JR-0307-6	0	24	P3 ★	----	Diode No. 2
U119	35.0	EV-0903-0	0	73	P3 ★	----	
U152	20.0	EV-0903-0	0	63	P3 ★	----	
U153	20.0	EV-0009-0	0	62	—	----	Cap = P: Hold down P6 and Press P3
U154	20.0	EV-0903-0	0	63	P3 ★	----	
U192	20.0	EV-0903-0	0	63	P3 ★	----	
U381	35.0	EV-0903-0	0	73	P3 ★	----	
U709	6.3	EV-0703-0	0	52	P3 ★	----	Plate No. 1
U709	6.3	EV-0103-0	0	52	P3 ★	----	Plate No. 2
UABC80	25.0	EV-8907-0	8	57	P4	1200	Triode Sect.
UABC80	25.0	EV-0607-0	0	26	P1 ★	----	Diode No. 1
UABC80	25.0	EV-0203-0	0	76	P1 ★	----	Diode No. 2
UABC80	25.0	EV-0107-0	0	76	P1 ★	----	Diode No. 3
UAF42	12.6	HS-6158-4	9	70	P4	1800	Pent. Sect.) Use Hickok Adapter
UAF42	12.6	HS-0308-0	0	58	P1 ★	----	Diode Sect.) Code No. 1050-129
UBC41	12.6	HS-3108-0	15	48	P4	1000	Triode Sect.) Use Hickok Adapter
UBC41	12.6	HS-0608-0	0	22	P1 ★	----	Diode No. 1) Code No.
UBC41	12.6	HS-0508-0	0	22	P1 ★	----	Diode No. 2) 1050-129
UBC81	12.6	EV-2103-0	15	48	P4	1000	Triode Sect.
UBC81	12.6	EV-0603-0	0	22	P1 ★	----	Diode No. 1
UBC81	12.6	EV-0803-0	0	22	P1 ★	----	Diode No. 2
UBF80	20.0	EV-2613-9	5	73	P4	2200	Triode Sect.
UBF80	20.0	EV-0703-0	0	22	P1 ★	----	Diode No. 1
UBF80	20.0	EV-0803-0	0	22	P1 ★	----	Diode No. 2
UBF89	20.0	EV-2613-9	6	81	P4	----	Pent. Sect.
UBF89	20.0	EV-0803-0	0	42	P1 ★	----	Diode No. 1
UBF89	20.0	EV-0703-0	0	42	P1 ★	----	Diode No. 2

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
UC92	10.0	JR-6307-0	13	83	P4	3250	
UCC85	25.0	EV-7608-0	21	64	P4	1450	Triode No. 1
UCC85	25.0	EV-2103-0	21	64	P4	1450	Triode No. 2
UCH42	12.6	HS-6158-4	14	60	P4	1300	Hexode Sect.) Use Hickok Adapter
UCH42	12.6	HS-4308-6	24	66	P4	1500	Triode Sect.) #1050-129
UCH81	20.0	EV-2613-7	13	59	P4	1300	Heptode Sect.
UCH81	20.0	EV-9803-2	21	79	P4	2750	Triode Sect.
UCL82	50.0	EV-3672-0	19	88	P4	4300	Pent. Sect.
UCL82	50.0	EV-1908-0	6	73	P4	2050	Triode Sect.
UF41	12.6	HS-6158-0	19	65	P4	1500	Use Hickok Adapter #1050-129
UF80	20.0	EV-2781-9	6	86	P4	3700	
UF85	20.0	EV-2781-9	17	80	P4	2550	
UF89	12.6	EV-2783-9	8	78	P4	2500	
UL41	50.0	HS-6158-0	19	89	P4	4750	Use Hickok Adapter #1050-129
UL84	50.0	EV-2793-0	38	91	P4	6700	
UM80	20.0	EV-1902-0	Vary	100	P5	----	Connect a 1 megohm resistor from plate jack to octal test socket Pin #8. Vary bias to vary beam angle.
UY41	35.0	HS-0108-0	0	74	P1 ★	----	Set line adjust to 1350 on 3000 scale. Use Hickok Adapter #1050-129.
UY85	35.0	EV-0903-0	0	73	P3 ★	----	
W17	1.5	DX-6210-0	0	21	P1 & P4	650	
W77	6.3	JR-3572-6	11	65	P4	1500	
X17	1.5	DX-8106-2	60	32	P4	775	
X719	6.3	EV-2613-7	13	59	P4	1300	Heptode Sect.
X719	6.3	EV-9803-2	21	79	P4	2750	Triode Sect.
X727	6.3	JR-7562-3	0	14	P1 & P4	600	Amp. Sect.
X727	6.3	JR-3562-7	20	87	P4	4400	Osc. Sect.
XC95	2.0	JR-2567-0	10	89	P4	5200	
XC97	2.5	JR-2503-6	16	90	P4	6000	
XC900	2.0	JR-3507-6	19	90	P4	5200	
XCC189	4.3	EV-7608-0	17	93	P4	8750	Triode No. 1
XCC189	4.3	EV-2103-0	17	93	P4	8750	Triode No. 2
XCF80	4.3	EV-2637-1	7	83	P4	2950	Pent. Sect.
XCF80	4.3	EV-9108-6	26	83	P4	3100	Triode Sect.
XCH81	3.0	EV-2613-7	13	59	P4	1300	Heptode Sect.
XCH81	3.0	EV-9803-2	21	79	P4	2750	Triode Sect.
XCL82	7.5	EV-3672-0	19	88	P4	4300	Pent. Sect.
XCL82	7.5	EV-1908-0	6	73	P4	2050	Triode Sect.
XCL84	7.5	EV-8697-0	10	90	P4	5500	Pent. Sect.
XCL84	7.5	EV-1203-0	10	87	P4	4000	Triode Sect.
XCL85	10.0	EV-9678-0	26	91	P4	7000	Pent. Sect.
XCL85	10.0	EV-2103-0	20	78	P4	2300	Triode Sect.
XF80	3.0	EV-2781-9	6	86	P4	3700	
XF85	3.0	EV-2781-9	17	80	P4	2550	
XF183	3.0	EV-2781-9	16	88	P4	2500	
XF184	3.0	EV-2781-9	10	84	P4	3400	
XL36	12.6	JR-5047-0	50	89	P4	4700	Cap = P
XL84	7.5	EV-2793-6	14	82	P4	3200	
XL86	7.5	EV-2793-0	38	91	P4	6700	
XY88	20.0	EV-0009-0	0	68	---	----	Cap = P. Hold down P6 and press P3. Disregard shorts test.
YC95	3.0	JR-2567-0	10	89	P4	5200	
YC97	3.0	JR-2503-6	16	90	P4	6000	
YCC189	5.0	EV-7608-0	17	93	P4	8750	Triode No. 1
YCC189	5.0	EV-2103-0	17	93	P4	8750	Triode No. 2
YF183	4.3	EV-2781-9	16	88	P4	2500	
YF184	4.3	EV-2781-9	10	84	P4	3400	
Z63	6.3	JR-0347-5	7	57	P4	1225	Cap = G
Z77	6.3	JR-3572-6	15	73	P4	2000	
Z150	6.3	HS-6158-4	10	81	P4	2600	Use Adapter #1050-129
Z152	6.3	EV-2781-9	6	86	P4	3700	
Z719	6.3	EV-2781-9	6	86	P4	3700	
Z729	6.3	EV-9316-8	11	65	P4	1500	

TUBE TYPE	FIL	SELECTORS	BIAS	ENG	PRESS	AVG. MUT. COND.	NOTATIONS
XD17	1.5	DX-6580-0	11	0	P1 & P4	490	Pent. Sect.
ZD17	1.5	HT-0180-0	0	14	P1 ★	----	Diode Sect.
ZD152	6.3	EV-2613-9	5	73	P4	2200	Pent. Sect.
ZD152	6.3	EV-0703-0	0	22	P1 ★	----	Diode No. 1
ZD152	6.3	EV-0803-0	0	22	P1 ★	----	Diode No. 2

